J.RADIOANAL.NUCL.CHEM.,LETTERS 155 (6) 459-465 (1991)

CONTENTS OF VOLUME 155

No. 1

L.A. Smakhtin, N.V. Filippova, E.S. Shokel (Obninsk, USSR) (Accepted 21 May 1991): The use of universal comparator method in large-scale NAA 1

F. Helus, K. Weber, S. Zeisler, W. Maier-Borst (Heidelberg, Germany) (Accepted 4 June 1991): An automatic system for the enzymatic synthesis of ^{13}N-glutamate 9

C. Desiderio, G. Perez, C. Polcaro, G. Caponecchi (Monterotondo Stazione (RM), Italy) (Accepted 5 June 1991): Radiolysis of benzene solutions in aqueous $NaNO_3$: A temperature dependence study by HPLC and GC analytical techniques 15

B. Constantinescu, E. Ivanov, G. Pascovici, D. Ploştinaru (Bucharest, Romania) (Accepted 10 June 1991): Determination of light elements using cyclotron-accelerated particles 25

J. Arunachalam, Anna John, S. Gangadharan (Bombay, India) (Accepted 10 June 1991): Derivative activation analysis of phosporus at ppb levels in water samples 33

L. Sha (Taiyuan, China), M. Yamamoto, K. Komura, K. Ueno (Ishikawa, Japan) (Accepted 17 June 1991): ^{239,240}Pu, ^{241}Am and ^{137}Cs in soils from several areas in China 45

Elsevier Sequoia S. A., Lausanne
Akadémiai Kiadó, Budapest

J. Gerler, B. Peucker-Ehrenbrink (Göttingen and Mainz, Germany) (Accepted 22 June 1991): Instrumental neutron activation analysis of UNS-SpS glass sand reference material 55

K. Oohashi, Y. Soutome (Chiba, Japan) (Accepted 24 June 1991): Regioselective tritiation of benzoic acid and its alkali metal salts. The action of benzoate ions 65

No. 2

O. Sima (Bucharest, Romania) (Accepted 15 June 1991): On the method of Dryak et al. for self-absorption correction calculations 75

C.D. Kalkar, V.M. Raut, M. Getahun (Pune, India) (Accepted 18 June 1991): Chemical effects induced by γ-irradiated Na_2SO_4 in aqueous ammonium nitrate 79

V. Kliment (Bratislava, CSFR) (Accepted 29 June 1991): Analysis of high-temperature superconducting films by X-ray fluorescence analysis 91

A. Martínez-Aguirre, M. García-León (Sevilla, Spain) (Accepted 1 July 1991): Natural radioactivity enhancement by human activities in rivers of the southwest of Spain 97

H. Hidaka, N. Kano, A. Masuda (Tokyo, Japan) (Accepted 2 July 1991): Estimation of burnup in the Oklo natural nuclear reactor from ruthenium isotopic composition 107

G.R. Doshi, S.N. Joshi, K.C. Pillai (Bombay, India) (Accepted 3 July 1991): ^{129}I in soil and grass samples around a nuclear reprocessing plant 115

R.A. Pacer (Fort Wayne, Indiana, USA) (Accepted 7 July 1991): Liquid scintillation and Cherenkov counting characteristics of ^{109}Cd 129

No. 3

T. Braun (Budapest, Hungary): World flash on cold fusion. 12. A selective annotated bibliography 141

J. Lesný, J. Klas, Z. Koreňová (Bratislava, ČSFR) (Accepted 1 July 1991): Determination of labeled cyclic 3',5'-adenosine monophosphate by sub- and super-equivalence isotope dilution 145

J. Lesný, Z. Koreňová, J. Klas (Bratislava, ČSFR) (Accepted 1 July 1991): Determination of thyroxine and 3,5,3'-triiodothyronine by sub- and super-equivalence isotope dilution analysis 155

P.Z. Hien, T.K. Mai, T.X. Quang, N.V. Loc, T.N. Thuy (Dalat, Vietnam) (Accepted 24 July 1991): Determination of k_o-factors of short-lived nuclides (T≥1 min) by thermal neutron activation technique 169

G.L. Silver (Miamisburg, Ohio, USA) (Accepted 29 July 1991): Environmental plutonium: What the redox potential of seawater? 177

M. Takiue, H. Fujii, T. Natake, Y. Matsui (Tokyo, Japan) (Accepted 5 August 1991): Analytical measurements of multiple beta-emitter mixtures with a liquid scintillation spectrometer 183

J.N. Mathur, M.S. Murali, P.R. Natarajan (Bombay, India) (Accepted 6 August 1991): Extraction of Pm(III) from acidic solutions using dihexyl N,N-diethylcarbamoylmethyl phosphonate 195

R. Amano, Y. Shiokawa (Kanazawa and Sendai, Japan) (Accepted 7 August 1991): Preparation of lanthanide sulfide films by chemical vapor deposition using β-diketone chelates 201

No. 4

R.B. Lanjewar, A.N. Garg (Nagpur, India) (Accepted 8 July 1991): Mössbauer spectroscopic studies in alkali metal hexakis(trimethylacetato)ferrate(III) complexes and their thermal decomposition products 211

M. Drtil, M. Földesová, J. Tölgyessy (Bratislava, ČSFR) (Accepted 9 July 1991): Contribution to the high-energy radiation post-treatment of piggery slurry 225

S. Dani, F. Zeraliu (Tirana, Albania) (Accepted 10 July 1991): Improvement of matrix effects correction in X-ray fluorescence analysis through the optimum relation 231

C. Loos-Neskovic (Gif-sur-Yvette, France), B. Bartos (Warsaw, Poland), M. Hussonnois (Orsay, France), O. Constantinescu (Bucharest, Romania) (Accepted 10 July 1991): Fr and Ra fixation on some inorganic sorbents or mixed composite ion exchangers 243

E. Havránek, A. Bumbálová, P. Křenek, M. Strašák, M. Beláková, M. Komová (Bratislava, ČSFR) (Accepted 12 July 1991): ^{99m}Tc labeled ethylene-bis(valine) and ethylene-bis(α-alanine) and their preliminary biodistribution 253

Á. Hargitai-Tóth, J. Kónya (Nyiregyháza and Debrecen, Hungary) (Accepted 8 August 1991): Interactions between ^{59}Fe(^{14}C)EDTA and soils containing calcium carbonate 263

No. 5

W.S. Lyon (Oak Ridge, TN, USA): Digging and wondering 273

J. Klas, Z. Koreňova, J. Lesný (Bratislava, ČSFR) (Accepted 11 August 1991): Theoretical error in sub- and super-equivalence method of isotope dilution analysis with VVV variant and its subvariants 279

J. Klas, Z. Koreňova, J. Lesný (Bratislava, ČSFR) (Accepted 14 August 1991): Theoretical error in sub- and super-equivalence method of isotope dilution analysis with VCV and CVV variants and their subvariants 289

A.P. Tonchev, Ph.G. Kondev, H.G. Hristov, Yu.P. Gangrsky (Dubna, USSR), N.P. Balabanov, V.D. Tcholakov (Accepted 15 August 1991): Isomeric yield ratio of ^{134}I in photofission of ^{232}Th and ^{238}U 299

R. Kopunec, Thang Ngo Manh (Bratislava, ČSFR) (Accepted 15 August 1991): Carrier-mediated transport of yttrium(III) through a supported liquid membrane containing TOPO in n-dodecane 311

Li-Yun Jin (Beijing, China), G. Capannesi, L. Renzi, F. Sedda (Rome, Italy) (Accepted 19 August 1991): An INAA study of trace elements in hair samples from two children on different sampling dates 325

N. Momoshima, N. Inoue, Y. Takashima (Fukuoka, Japan) (Accepted 19 August 1991): Loss of ^{99}Tc from seaweeds in the course of dry ashing 335

S. Szegedi, G. Kanalics, M. Váradi, Gy. Zilizi (Debrecen, Hungary) (Accepted 26 August 1991): Determination of Ta impurities in Nb samples by X-rays in neutron activation analysis 343

S.M.K. Nair, T.S. Sahish (Kerala, India) (Accepted 26 August 1991): Effect of hydration on the annealing of chemical radiation damage in gamma-irradiated strontium bromate 351

Á. Hargitai-Tóth, J. Kónya (Nyíregyháza and Debrecen, Hungary) (Accepted 29 August 1991): Interaction between $^{59}Fe(III)$--polyphosphates and clayey meadow soil 359

No. 6

P.B. Ruikar, M.S. Nagar, M.S. Subramanian (Bombay, India) (Accepted 30 August 1991): Quantitative analysis of some extractants by infrared spectrometry 371

D. Britz (Aarhus, Denmark) (Accepted 3 September 1991): Parameter correlation in cold fusion measurements 377

A. Jamett, M. Santander L. Peña (Antofagasta, Chile), N. Gras, L. Muñoz (Santiago, Chile) (Accepted 4 September 1991): Trace elements in the hair of workers of a copper mine and of children living in the vicinity 383

P.P. Burte, A.G.C. Nair, S.B. Manohar, Satya Prakash (Bombay, India) (Accepted 5 September 1991): Iodide and iodine uptake in plants 391

Nguyen Ngoc Tich, H.A. Das (Da Lat, Lam Dong, Vietnam and Petten, The Netherlands) (Accepted 22 September 1991): On the use of a lead-time meter for pile-up correlations 403

Y. Sensui, K. Tomura (Tokyo and Yokosuka, Japan) (Accepted 22 September 1991): Phase and dose effects of ^{13}N in pile-irradiated propionic-d_2 acid 411

D. Schumann, A.F. Novgorodov, V.A. Khalkin (Moscow, USSR), R. Dreyer (Dresden, Germany) (Accepted 23 September 1991): Electromigration of trace quantities of radioelements in free electrolyte solutions. Hydrolysis of tetravalent and pentavalent vanadium 419

Katharina Pock, F. Steger (Seibersdorf, Austria), T. Schönfeld (Wien, Austria) (Accepted 25 September 1991): Thorium in quartz glass: Significance for activation analysis of excreta 427

M. Yagi, T. Sekine, K. Yoshihara (Sendai, Japan) (Accepted 2 October 1991): Detection limit of technetium in $^{99}Tc(\gamma,\gamma')^{99m}Tc$ radioactivation analysis in the presence of molybdenum 435

M. Peisach, A.E. Pillay (Faure and Witwatersrand, South Africa) (Accepted 2 October 1991): Secondary effects in prompt charge particle activation analysis 445

L. Tran Van, T. Le Duy (Dalat and Ho Chi Minh City, Vietnam) (Accepted 9 October 1991): Linhchi mushrooms as biological monitors for ^{137}Cs pollution 451

Contents of Volume 155 459

Index to Volume 155 467